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LOOPING STATEMENTS QUESTIONS:

1. Explain the use of break and continue in Python looping.

Ans: When processing a particular item was complete; to move on to the next, without executing further processing in the block.  
The continued statement says, “I’m done processing this item, move on to the next item.”

2. When would you use a break statement in a for loop?

Ans: When the loop has served its purpose. As an example, after finding the item in a list searched for, there is no need to keep looping. The break statement says, “I’m done in this loop; move on to the next block of code.”

3. What is the structure of a for loop?

Ans: for <item> in <sequence>:… The ellipsis represents a code block to be executed, once for each item in the sequence. Within the block, the item is available as the current item from the entire list.

4. What is the structure of a while loop?

Ans: while <condition>:… The ellipsis represents a code block to be executed until the condition becomes false. The condition is an expression that is considered true unless it evaluates to 0, null or false.

5. When using a while loop, a condition was encountered that made staying in the loop pointless, what statement is used to transfer control?

Ans: The break statement is used to terminate the processing of the loop and move on to the next block of code.

6. How is execution in the while loop block abandoned, but the loop itself is not exited?

Ans: The continue statement is used to terminate the processing of the block and move control to the next iteration of the loop.

7. What is a looping use of the range( ) function?

Ans: The range function is used to generate a sequence of numbers for iteration.

8. Can the else clause be used after a while loop? When is it executed?

Ans: Yes. The else block is executed after the while condition becomes false, but not if the while loop is exited with a break statement.

9. How is the body of a loop defined?

Ans: The body of the loop is defined by indentation.

10. How are loops nested?

Ans: Ever greater levels of indentation.

11. How does For loop and While loop differ in Python and when do you choose to use them?

Ans:For loop is generally used to iterate through the elements of various collection types such as List, Tuple, Set and Dictionary.While loop is the actual looping feature that is used in any other programming language. This is how Python differs in handling loops from the other programming languages.

12.How to loop through a sequence with the sorted() function in Python?

Ans:The sorted() function returns the elements in sorted order from an iterable object.

Syntax:

Sorted(Iterable, key=key, reverse=reverse)

13.How to loop through a sequence with the reversed() function in Python?

Ans: The reversed function returns the elements in reverse order from an iterable object.

Syntax:

reversed(Iterable)

14. How can you use for loop to repeat the same statement over and again?

Ans:You can use for loop even repeating the same statement over and again.

Eg:

Here , in the example, we have printed out the word “guru99” three times.

To repeat the same statement a number of times, we have declared the number in variable i (i in 123). So when you run the code as shown below, it prints the statement(guru99) that many times the number declared for our the variable in ( i in 123).

for i in ‘123’:

print(“guru99”,i)

15.What is nested while loop?

Ans:If a while loop consists of another while loop we can call it a nested while loop.There is no particular limit for number of loops in a nested while loop. It may go on for as many times a user requires or declares it in the program.’

16.What is the keyword preceded by the break command in a loop?

Ans: if

17.Difference between for loop and while loop.

Ans:The “for” loop is generally used to iterate through the elements of various collection types such as List,Tuple, Set, and Dictionary. Developers use a “for” loop where they have both conditions start and the end. Whereas the “while” loop is the actual looping feature that is used in any other programming language. Programmers use a python while loop where they just have the end conditions.

18.What is range in Python Loop?

Ans:In Python, range is a built in function that returns a sequence. A range function has three parameters which are starting parameter, ending parameter and a step parameter. Ending parameter does not include the number declared.

Eg: a=list(range(0,10,2))

print(a)

output=[0,2,4,6,8]

19.Is there an inherent do-while loop in Python?

Ans:No

20.What is loop in Python?

Ans:Looping refers to the process of repeating an action until a certain condition is met.In Python, a for loop is a control flow statement that is used to repeatedly carry out a set of instructions as long as the condition is met.